

### THE AMERICAN GRAPE INDUSTRY.

A Great and Increasing Branch of Horticulture.

GUY ELLIOTT MITCHELL

All of which is charming in truth unless the phylloxera or the downy mildew or the aphis or the dry rot become appurtenances to vine, or the wine. There are hundreds of casks throughout the State with a capacity borhood steal all the grapes just as they are getting ripe.

Chickens, however, should be kept in pens, and if every small boy's father 25,000,000 pounds of these raisin grapes had a grape vine which furnished "all are shipped East every year as table the fruit his family could consume," grapes. there would be no incentive to pillage the neighbor's vines.

As for the downy mildew and the other ailments to which civilized grape

"The grape is the poor man's fruit, especially one who has only a house lot of the smallest possible dimensions. He can plant vines beside his cottage and their roots will extend and profitably occupy inch of ground underneath it and from that small space produce all the fruit his family can consume, white the vines afford shade and protection and add beauty to his little home, occupying no space, either above or below transproducing more fruit in less time and producing more fruit in less time and producing more fruit in less time and with less labor and attention than anything that was ever planted."

All of which is charming in truth

The writer once climbed to the top of a single cask at Fresno, California, which contained 96,000 gallons of port of 50,000 gallons each. The annual raisin production of California amounts to about 90,000,000 pounds, while about 25,000,000 pounds of these raisin grapes



Seedless Grapes From One Vine

Largest Grape Vine in the World, SantaBarbara California.



tions have shown that they can be combatted wth comparative ease by spraying, and rot not only prevented but the vine stimulated to even greater gallons of wine.

than normal production. As a matter of fact, the grape in-dustry in the United States when con-

accountable for much that is unseemly and frivolous, the vine is itself an object of great age and dignity. It is not known how old the grape will grow in America, since we have not been here long enough to make the test, even had yield tannin. a vine been planted with the landing of Columbus. Pliny mentions an Old World grape vine 600 years of age. Some entire vineyards in Italy held good for 300 years and others in Burgundy produced for 400 years and more.



PACKING CONCORD GRAPES, LAKE

KEUKA, NEW YORK. were cultivated vines. Doubtless native vines grow to much great- rests have already been made,

The viticulturist of the Department vines grow to immense size. There is a wild grape vine on the shores of Mobile Bay under which Andrew Jackson twice pitched his tent in his campaigns against the Seminoles, which has a circumference of over six feet, with a supposed age of about 100 years.

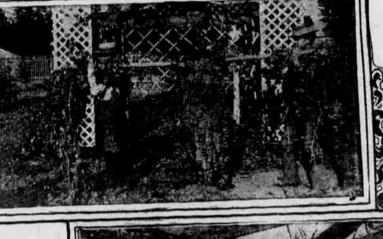
The Size of a Great Tree. The largest known grape vine in the world was planted in California in 1842. It has made a phenomenal growth Beneath its spreading branches, which cover nearly half an acre, 800 persons can find protection from the sun's heat. It bears from six to ten

tons of grapes for a crop and the circumference of its trunk is eight feet. While the wine industry is by far the most important feature of grape growing enormous quantities of table grapes are raised and by means of improved transportation facilities sent to all parts of the country. The Con-cords, the Delawares and the Niagaras come from the North, the Scuppernongs from the South and the Flame Tokays and other sugary raisin grapes from

the Pacific coast. The last census reported 12 States having in bearing over 2,000,000 vines each, California being first with 90, 090,000 vines, New York second with

Last year the Chautauqua district in New York produced 600,000 gallons of unfermented grape juice.

These figures give some idea of our



vines are heir, horticultural investiga- grape industry, which, while it is only about 50 years old, is small as com-

Other products of the grape are raisins-an enormous industry in itselfbrandy, vinegar, grape syrup, a very

substitute for coffee. A high grade oil similar to olive oil is also produced from the seeds, which, among other thiegs, make superior soap. They also them on up-to-date farms and small

Mr. Husmann estimates that if all the wastes of the grape crop were utilized extra returns would increase its value fully 10 per cent., which, with our present grape production to the value of abcut \$15,000,000, would mean an additional earning of a million and a half, and this with our viticultural industry as yet in its infancy.

### Feeding Oleo to the Navy.

Considerable of a sensation has de-

eloped over the furnishing to League Island navy yard. Philadelphia, of butter which analysis has proven to be simply oleomargarine colored with coal tar dye. Samples were taken from the government receiving ship Lancaster, several battle ships and cruisers and from the hospitals of the navy yard by agents of the Pennsylvania Dairy and Food Commission. Dr. Warren, the State Commissioner, declared them to be specimens of coal tar oleo and after age man can operate them with the stance of President Roosevelt, they a bright boy can handle a modern gaswere finally submitted to Dr. Wiley, the riculture, who in a full report has susof Justice to the matter. Several ar-

of Agriculture, George C. Husmann, the market, Dr. Wiley said that at presstates that he has never seen a vine ent the amount of oleomargarine sold states that he has never seen a vine among the endless number of natives abounding in our forests that has died from the effects of age. Some old grape vines grow to immense size. There is dered the making and sale of the stuff unprofitable by levying 10 cents a pound on all that is artificially colored, and half a cent on the uncolored.

Foreigners Refuse Colored Butters.

"Coal tar dyes," said Dr. Wiley, "are not fatally harmful, though by no means wholesome, and dairymen are permitted under the law to use such coloring matter to impart to their butter a rich yellow color. To render this unnecessary, the Department of Agriculture is now trying to educate the popular taste in favor of uncolored but ter, and we are making some headway. Over in Europe one never encounters colored butter in any of the hotels or first class markets. The people there have learned to distrust it. coming to this in the United States. To day first-class hotels and fancy gro-ceries will not buy butter that has a high color. Our epicures and those that live well are also fighting shy of it, and as a result the dairymen are beginning to realize that the bottle of coal tar dye is no longer a necessary adjunct to a successful dairy."

John Adams was the author of motto, "E Pluribus Unum."

Increasing Wealth in the West.

In commenting on the need which has hitherto manifested itself in the West for calling upon Eastern money centers for funds with which to move Western crops, a New York financial letter states that with conditions as they were ten years ago, the present record-breaking crop would have strained the capacity of the New York financial centers to the utmost to furnish sufficient funds. So greatly, however, has the wealth of the West increased and so large are the surplus crops so stupendous as to amaze Europe, New York financiers have been hardly inconvenienced by the demands for funds. In a not distant future it is predicted the West of the Mississippi



SCUPPERNONG WINERY, NORTH

distant Northwest.

No expert can estimate accurately the gains that will come this year to the farmers, the surplus that will be left find themselves to the good by not less see. But they didn't use no nests. than \$300,000,000, and possibly \$400,000,000. These are the gains as well as those which the great transportation companies expect to receive for carry ing the agricultural products from the harvest fields to the market to which Mr. Vanderlip referred in his address to the National Bankers' Association at Washington, The United States as a whole ought to be richer by reason of the year's industry, agricultural and manufacturing and transportation, by an amount considerably in excess of a thousand millions.

GASOLINE POWER ENGINES.

Constitutes Great Saving in Horse and Man Power - Have Come Into General Use on Many Prosperous Farms and Homes.

Inexpensive, reliable power on the farm and around the home is becoming more and more desirable these days when unskilled labor is so high and hard to procure. Gasoline engines, which when started practically take care of themselves, are rapidly supplanting steam engines and horse powproposition and as one where each man has his own vine, if not fig tree, is one of a great deal of importance and of great interest.

Count Their Age by Centuries.

Although the product of its fruit is accountable for much that its unscendir.

Although the product of its fruit is grain. Ground up, they are used as a grain. Ground up, they are used as a great devices.

Superior article, and various pickles, stant attention. The difference in the stant attention at the difference in the stant attention at the difference in the stant attention at the stant attention at the stant attention at the difference in the stant attention at the stant attentio er, the operation of which requires con-

A few years ago we heard but little about gasoline engines for use on the farms, while to-day we find many of business plants. This growing interest has been brought about largely through the improvements that have



been made by manufacturers during late years in simplifying the working parts of the engines so that the averwith a team of horses or a tread-mill. In speaking, however, of the substi-tution of oleomargarine for butter in There is ensilage to cut, wood to saw, pump, in fact a multitude of things

CHICKENS AS GARDENERS.

Can Be Taught to Pull Weeds and Harvest Grain. "I see as how a scientific perfesser

has trained a yaller dorg to count ten an' answer fool questions," said the hired man to the tourist, "Wy that ain't nothin.' I knows an old feller back yere in th' Valley what beats that all to flinders, Began raisin' chickens when he was a boy. I seen reserves of the farmers that even with some bantams he had no biggern' fleas an' game birds what c'd step over a six-foot fence. But that ain't nothin', Last time I was down 't his place he had a hunderd-acre farm an 'bout ten Valley and of the Missouri Valley as thousand chickens, an' was raisin' well will be found exclusively lending truck for early northern markets. Powerful big chickens they was, an' he had 'em trained so's they'd work his farm for him. They wasn't a weed nur a blade o' grass in that whole farm 'cep'n in the pastures. An' bugs? wy they cudn't a tater bug, nur a cut worm, nur even a cabbage flea get a foot inside o' that farm afore a chicken had 'im. An' that wasn't all. Them chickens c'd see at night. Guess he must a' crossed 'em with owls.
Anyways, he never worried none
'bout early frost. If 'twas cold in the spring them chickens was out all night coverin' up tomatoes an' beans an' ev'ythin' tender. Jest squat over the plants with their wings spread out an' set there till sun up He had tomatoes three weeks ahead o' anybody else. An' that wasn't all. When or advancing money with which to move the crops that are grown in the remoter regions of the Southwest or the right size them chickens come along an thin 'em out jest right. Fine eatin' for 'em, too. An' 'tween times they was going up an' down the rows all day long scratchin' up the dirt an' for them after paying expenses, which keepin' ev'ythin' cultivated jest par-represents their profits. Some of the most experienced experts have ventured in his han' from one year end to another. An' lay! Gee whiz! Them United States this year as a whole will hens was the stiddlest layers I ever



fast as one layer was full the hens in charge o' the layin' house 'd grab up a new frame an' drop it in the crate. I see 'em fill sixty-odd crates o'

Well, sir, that feller jest drove 'bout five hundred chickens out in the road and put down a lot o' sacks an' they went to pickin' up that seed wheat faster'n you er I c'd pick up taters. They gethered up 'bout forty bushel. In the sacks? Wy of course They was thee roosters a holdin' each sack, an' when a sack was full they'd whip a tie 'roun the neck, set it up agin the fence an' grab up another. They was sich big powerful chickens, you know. An' that wasn't all nel-ther. He had some whoppin' big roosters, an' he sharpened up their spurs in the fall an' had 'em cuttin' corn better'n you or I c'd with a cornknife, an' stackin' it up jest as regar. But shucks! that wasn't nothin'. Wy I see that felller—" But as he looked around the tourist

had fled in horror.

### Chinese "Cash."

Consular reports from China are to the effect that the prospect of a re-form or rather revolution in the money system of that Empire is not very bright, in spite of the promises to that considerable controversy, at the in- ease of an expert. As a matter of fact, end which have been made. There are were finally submitted to Dr. Wiley, the chief chemist of the Department of Agriculture, who in a full report has sugtained Dr. Warren's findings. Secrestary Wilson has referred the report to the President, who has, it is stated, the President, who has, it is stated, called the attention of the Department familiar with its workings as he would who mint them. The money of the The general usefulness of a machine introduce a new system will be difficult owing to the dread on the part of the public of anything new. Gold and silver may continue to control the price paid for exports, but copper and brass will for a long time govern production.



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